## **SIEMENS**

## Data sheet

## 3RF2340-3AA04

	Solid-state contactor 1-phase 3RF2 AC 51 / 40 A / 40 °C 48-460 V / 24 V DC Ring cable connection
product brand name	SIRIUS
product designation	solid-state contactor
design of the product	single-phase
product type designation	3RF23
manufacturer's article number	
<ul> <li>_1 of the accessories that can be ordered</li> </ul>	<u>3RF2900-3PA88</u>
<ul> <li>_3 of the accessories that can be ordered</li> </ul>	<u>3RF2900-0EA18</u>
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	<u>3RF2950-0GA16</u>
product designation	
<ul> <li>_1 of the accessories that can be ordered</li> </ul>	terminal cover
<ul> <li>_3 of the accessories that can be ordered</li> </ul>	converter
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	load monitoring
General technical data	
product function	zero-point switching
power loss [W] for rated value of the current	
at AC in hot operating state	44 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	44 W
without load current share typical	0.4 W
insulation voltage rated value	600 V
degree of pollution	3
type of voltage of the control supply voltage	DC
surge voltage resistance of main circuit rated value	6 kV
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2006
Main circuit	
number of poles for main current circuit	1
number of NO contacts for main contacts	1
number of NC contacts for main contacts	0
operating voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	48 460 V
<ul> <li>at 60 Hz rated value</li> </ul>	48 460 V
operating frequency rated value	50 60 Hz
operating range relative to the operating voltage at AC	
• at 50 Hz	40 506 V
• at 60 Hz	40 506 V
operational current	
<ul> <li>at AC-51 rated value</li> </ul>	40 A
• at AC-51 according to IEC 60947-4-3	33 A
<ul> <li>according to UL 508 rated value</li> </ul>	36 A

	<b>F</b> 00 <b>A</b>
operational current minimum	500 mA
rate of voltage rise at the thyristor for main contacts maximum permissible	1 000 V/µs
blocking voltage at the thyristor for main contacts maximum permissible	1 200 V
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	1 200 A
l2t value maximum	7 200 A <sup>2</sup> ·s
Control circuit/ Control	7 200 A 'S
type of voltage of the control supply voltage	DC
control supply voltage 1	
<ul> <li>at DC rated value</li> </ul>	30 V
• at DC	15 24 V
control supply voltage	
<ul> <li>at DC initial value for signal &lt;1&gt; detection</li> </ul>	15 V
<ul> <li>at DC full-scale value for signal&lt;0&gt; recognition</li> </ul>	5 V
control current at minimum control supply voltage	
• at DC	13 mA
control current at DC rated value	15 mA
ON-delay time	1 ms; additionally max. one half-wave
OFF-delay time	1 ms; additionally max. one half-wave
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Installation/ mounting/ dimensions	
fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm
	according to IEC 60715
<ul> <li>side-by-side mounting</li> </ul>	Yes
design of the thread of the screw for securing the	M4
equipment	
	100 mm
height	100 mm
width	67 mm
width depth	
width	67 mm
width depth	67 mm 141 mm
width depth Connections/ Terminals	67 mm
width depth Connections/ Terminals type of electrical connection	67 mm 141 mm
width depth Connections/ Terminals type of electrical connection • for main current circuit	67 mm 141 mm Ring cable lug connection
width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts for JIS cable lug	67 mm 141 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5
width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts for JIS cable lug • for DIN cable lug for main contacts	67 mm 141 mm Ring cable lug connection ring terminal lug connection
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width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts for JIS cable lug • for DIN cable lug for main contacts type of connectable conductor cross-sections • for auxiliary and control contacts — solid	67 mm 141 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )
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width depth          Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections         • for main contacts for JIS cable lug         • for DIN cable lug for main contacts         type of connectable conductor cross-sections         • for DIN cable lug for main contacts         type of connectable conductor cross-sections         • for auxiliary and control contacts         — solid         — finely stranded with core end processing         — finely stranded without core end processing         • at AWG cables for auxiliary and control contacts         tightening torque         • for main contacts with screw-type terminals         • for auxiliary and control contacts with screw-type terminals         • for auxiliary and control contacts with screw-type terminals         • for auxiliary and control contacts with screw-type terminals         • for auxiliary and control contacts with screw-type terminals         • for auxiliary and control contacts with screw-type terminals         • for auxiliary and control contacts with screw-type terminals         • for auxiliary and control contacts with screw-type terminals         • for auxiliary and control contacts with screw-type terminals         • for auxiliary and control	67 mm 141 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12) 2 2.5 N·m 0.5 0.6 N·m 4.5 5.3 lbf-in M5
width depth          Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections         • for main contacts for JIS cable lug         • for DIN cable lug for main contacts         type of connectable conductor cross-sections         • for DIN cable lug for main contacts         type of connectable conductor cross-sections         • for auxiliary and control contacts         — solid         — finely stranded with core end processing         • finely stranded without core end processing         • at AWG cables for auxiliary and control contacts         tightening torque         • for main contacts with screw-type terminals         • for auxiliary and control contacts with screw-type terminals         • for auxiliary and control contacts with screw-type terminals         tightening torque [lbf·in]         • for auxiliary and control contacts with screw-type terminals         design of the thread of the connection screw         • for main contacts         • of the auxiliary and control contacts	67 mm 141 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12) 2 2.5 N·m 0.5 0.6 N·m 4.5 5.3 lbf-in M5
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width depth Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul> type of connectable conductor cross-sections <ul> <li>for DIN cable lug for main contacts</li> <li>type of connectable conductor cross-sections</li> <li>for DIN cable lug for main contacts</li> </ul> type of connectable conductor cross-sections <ul> <li>for DIN cable lug for main contacts</li> <li>type of connectable conductor cross-sections</li> <li>for DIN cable lug for main contacts</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary and control contacts</li> <li>– solid</li> <li>– finely stranded with core end processing</li> <li>at AWG cables for auxiliary and control contacts</li> </ul> tightening torque <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> </ul> tightening torque [lbf·in] <ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul> design of the thread of the connection screw <ul> <li>for main contacts</li> <li>of the auxiliary and control contacts</li> </ul> tightening torque [lbf·in] <ul> <li>for main contacts</li> <li>of the auxiliary and control contacts</li> </ul>	67 mm 141 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12) 2 2.5 N·m 0.5 0.6 N·m 4.5 5.3 lbf·in M5 M3 10 mm
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touch protection on	the front according to	IEC 60529	finger-safe, for vertical	contact from the front w	vith cover	
Ambient conditions						
	t height above sea level	maximum	1 000 m	1 000 m		
ambient temperatur	-					
<ul> <li>during operatio</li> </ul>	n		-25 +60 °C			
during storage			-55 +80 °C			
Electromagnetic com						
conducted interference			2 kV / 5 kHz behavior criterion 2			
<ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC</li> </ul>			2 kV behavior criterion 2			
61000-4-5	or-conductor surge acco	-				
61000-4-5	-	-	1 kV behavior criterion 2			
61000-4-6	quency radiation accord	0	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1			
	ence according to IEC arge according to IEC 6		80 MHz 1 GHz 10 V/m, behavior criterion 1			
	ference emissions acc		4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment			
	field-bound HF interference emission according to		Class B for the domestic, business and commercial environments			
Short-circuit protection	on, design of the fuse	link				
manufacturer's article						
<ul> <li>of gS fuse for s design usable</li> </ul>	<ul> <li>of gS fuse for semiconductor protection at NH design usable</li> </ul>		<u>3NE1802-0</u>			
at cylindrical des	• of full range R fuse link for semiconductor protection at cylindrical design usable		<u>5SE1350</u>			
<ul> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> </ul>		<u>3NE8017-1</u>				
at cylindrical des	<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> </ul>		<u>3NC1450</u>			
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> </ul>		<u>3NC2280</u>				
	e number of the gG fuse					
<ul> <li>at NH design usable</li> </ul>		<u>3NA6812</u> ; These fuses semiconductor relays	have a smaller rated cu	urrent than the		
<ul> <li>at cylindrical de</li> </ul>	esign 14 x 51 mm usable	9		es have a smaller rated	I current than the	
		<u>3NW6112-1</u> ; These fuses have a smaller rated current than the semiconductor relays				
at cylindrical design 22 x 58 mm usable		<u>3NW6212-1</u> ; These fuses have a smaller rated current than the semiconductor relays				
<ul> <li>manufacturer's article number</li> <li>of DIAZED fuse usable</li> </ul>		5SB4111; These fuses have a smaller rated current than the				
		semiconductor relays				
<ul> <li>of NEOZED fuse usable</li> </ul>		5SE2335; These fuses have a smaller rated current than the semiconductor relays				
Certificates/ approva	ls					
General Product A	pproval			EMC	Declaration of Conformity	
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Conformity	Test Certificates	other				
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	ates/Test Report					
EG-Konf.			VDE			
Further information						

## Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2340-3AA04

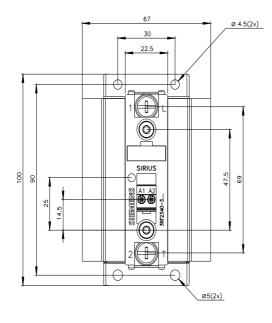
Cax online generator

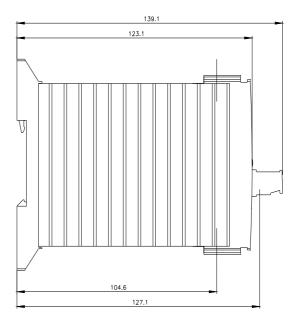
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2340-3AA04

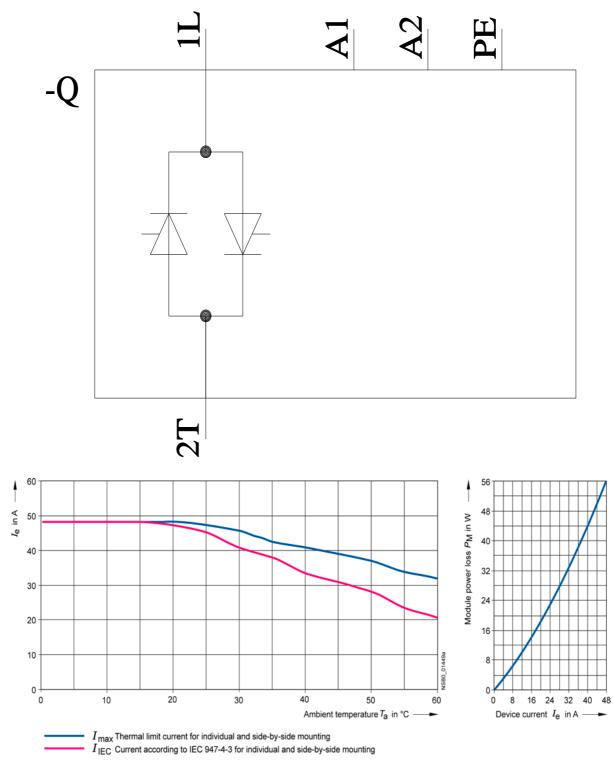
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2340-3AA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2340-3AA04&lang=en







last modified:

1/26/2022 🖸